



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6  
HOUSTON BRANCH  
10625 FALLSTONE RD.  
HOUSTON, TEXAS 77099

**RECEIVED**

BY 80 DATE 12/18/06

MEMORANDUM

Date: December 13, 2006

Subject: Contract Laboratory Program Data Review

From: *Marvelyn Humphrey*, Marvelyn Humphrey, ESAT Regional PO, 6MD-H

To: G. Baumgarten, 6SF-RA

Site : JONES ROAD GROUND WATER PLUME

Case# : 35905

SDG# : F27J4

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

Please note that the quantitation level for vinyl chloride is qualified as unusable for sample F27Q9.

If you have any questions regarding the data review report, please call me at (281) 983-2140.



212875

# ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6  
10625 Fallstone Road  
Houston, TX 77099

Alion Science and Technology

## MEMORANDUM

DATE: December 13, 2006  
TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA  
FROM: Linda Hoffman, Data Reviewer, ESAT *M*  
THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT *DGJ*  
*BY JH*  
SUBJECT: CLP Data Review

Contract No.: EP-W-06-030  
TO No.: 002  
Task/Sub-Task: 2-11  
ESAT Doc. No.: 6002-211-0154  
TDF No.: 6-06-177A  
ESAT File No.: 0-0098

Attached is the data review summary for Case # 35905

SDG # F27J4  
Site Jones Road Ground Water Plume

## **COMMENTS:**

### I. LEVEL OF DATA REVIEW

Standard data review was performed for this data package.

### II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS found the data package contractually compliant. Hard copy review did not detect any contractual problems that caused data qualification.

### III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

The total number of sample results reviewed for this data package was 1040. Some results were qualified because of the significant technical problem addressed below.

One sample had low DMC recoveries. The zero percent VDMC1 recovery caused an unusable result for the compound of concern vinyl chloride for sample F27Q9RE.

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 6  
HOUSTON BRANCH  
10625 FALLSTONE ROAD  
HOUSTON, TEXAS 77099  
ORGANIC REGIONAL DATA ASSESSMENT**

CASE NO.	35905	SITE	Jones Road Ground Water Plume
LABORATORY	DATAC	NO. OF SAMPLES	20
CONTRACT#	EP-W-05-026	MATRIX	Water
SDG#	F27J4	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.1	REVIEWER'S NAME	Linda Hoffman
SF#	302DD2CNK	COMPLETION DATE	December 13, 2006

SAMPLE NO.	F27J4	F27L5	F27Q9	F27Z7	F2803
	<u>F27J5</u>	<u>F27Q5</u>	<u>F27R0</u>	<u>F2800</u>	<u>F2806</u>
	<u>F27L2</u>	<u>F27Q6</u>	<u>F27R1</u>	<u>F2801</u>	<u>F2809</u>
	<u>F27L4</u>	<u>F27Q8</u>	<u>F27R2</u>	<u>F2802</u>	<u>F2841</u>

**DATA ASSESSMENT SUMMARY**

TVOA

1. HOLDING TIMES	<u>O</u>
2. GC/MS TUNE/INSTR. PERFORM.	<u>O</u>
3. CALIBRATIONS	<u>O</u>
4. BLANKS	<u>O</u>
5. DMC/SURROGATES	<u>M</u>
6. MATRIX SPIKE/DUPLICATE/LCS	<u>O</u>
7. OTHER QC	<u>O</u>
8. INTERNAL STANDARDS	<u>O</u>
9. COMPOUND ID/QUANTITATION	<u>O</u>
10. PERFORMANCE/COMPLETENESS	<u>O</u>
11. OVERALL ASSESSMENT	<u>M</u>

O = Data had no problems.

M = Data qualified because of major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

**ACTION ITEMS:**

**AREA OF CONCERN:** Contractual Issue: The laboratory failed to contact SMO regarding more than one sample being requested for MS/MSD analysis. Technical Issue: One sample had low DMC recoveries. The zero percent VDMC1 recovery caused an unusable vinyl chloride result for sample F27Q9RE.

**NOTABLE PERFORMANCE:**

**COMMENTS/CLARIFICATIONS**  
**REGION 6 CLP QA REVIEW**

**CASE 35905 SDG F27J4 SITE Jones Road Ground Water Plume LAB DATA**

**COMMENTS:** This SDG consisted of 20 water samples for TVOA analysis following SOW SOM01.1. The OTR/COC Records designated samples F27L2 and F2802 as laboratory QC samples. The laboratory only performed MS/MSD analyses on sample F27L2 without contacting SMO. The samples in this SDG were associated with field blank sample F2896 and trip blank sample F2884 both in SDG F27Q4. The RSCC personnel verified that samples F27Q6 and F27Z7 were field duplicates of samples F28C2 and F28C3, respectively, both in SDG F27Q4.

Standard data review was performed for this package as requested by the Region. The target compounds of concern were vinyl chloride, trans-1,2-dichloroethene, cis-1,2-dichloroethene, and tetrachloroethene with the user's desired detection limit of 1 µg/L. All samples met the user's desired detection limit criteria except that the vinyl chloride result was qualified as unusable for sample F27Q9 because of a zero percent VDMC1 recovery. The only target compound of concern detected at a concentration above the user's desired detection limit was tetrachloroethene in sample F27Z7.

Sample F27Q9 was reanalyzed because DMC recoveries failed technical acceptance criteria. The reanalysis repeated the problem, demonstrating matrix effect. Because of better overall QC performance, the results for sample F27Q9RE were designated for use.

Some results were qualified for one sample because of problems with DMC recovery. ESAT's final data qualifiers in the Data Summary Table (DST) indicate the technical usability of all reported results. An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the audit results were reported on the Evidence Inventory Checklist.

**NOTE: THE FOLLOWING REVIEW NARRATIVE ADDRESSES BOTH CONTRACTUAL ISSUES (BASED ON THE STATEMENT OF WORK) AND TECHNICAL ISSUES (BASED ON THE NATIONAL FUNCTIONAL GUIDELINES). THE ASSESSMENT MADE FOR EACH QC PARAMETER IS SOLELY BASED ON THE TECHNICAL DATA USABILITY, WHICH MAY NOT NECESSARILY BE AFFECTED BY CONTRACTUAL PROBLEMS. THE ASSESSMENTS ARE DEFINED BELOW.**

Acceptable = No results were qualified for any problem associated with this QC parameter.

Provisional = Some results were qualified because of problems associated with this QC parameter.

Unusable = All results are unusable because of major problems associated with this QC parameter.

**1. Holding Times:** Acceptable. All samples met the contractual and technical holding time criteria. The pH values indicated that all samples were acid-preserved.

**ORGANIC QA REVIEW  
CONTINUATION PAGE**

**CASE 35905 SDG F27J4 SITE Jones Road Ground Water Plume LAB DATA**

**NOTE:** Polymerization of vinyl chloride and styrene is likely to occur in acid-preserved samples and could cause low biased results for these analytes.

**2. Tuning/Performance:** Acceptable. The BFB analyses met GC/MS tuning criteria.

**3. Calibrations:** Acceptable. All calibrations met contractual criteria. The 1,4-dioxane did not meet the technical minimum RRF criteria for all calibrations. The raw data for calibrations showed that the instrument had no difficulty detecting this analyte at the CRQL. Therefore, the reviewer did not qualify the 1,4-dioxane sample results.

**4. Blanks:** Acceptable. The method and storage blanks were contractually acceptable. Methylene chloride was detected at a concentration below the CRQL in one method blank. This contamination did not affect the field sample results.

**Field/Trip Blanks:** Field blank sample F2896 was free from contamination. Trip blank sample F2884 contained a concentration of chloromethane below the CRQL. As a result of shipping contamination, the chloromethane result below the CRQL for sample F2802 should be considered undetected and was flagged "U" at the CRQL on the DST.

**5. Deuterated Monitoring Compounds (DMC's)/Surrogates:** Provisional. Sample F27Q9 had more than the contract-allowed DMC recoveries outside QC limits. The reanalysis of this sample had the same problem, demonstrating matrix effect. To minimize result qualification, the reviewer designated for use the results for sample F27Q9RE, which had better overall QC performance. The reviewer qualified the vinyl chloride result for this sample as unusable because of the 0% recovery for VDMC1. In addition, the reviewer qualified the results associated with VDMC's 3, 9, and 10 for sample F27Q9RE as estimated because of low DMC recoveries. The rest of the samples had DMC recoveries within the QC limits.

**6. Matrix Spike/Matrix Spike Duplicate/Laboratory Control Sample (MS/MSD/LCS):** Acceptable. All MS/MSD results were within the SOW QC limits.

**7. Other QC:**

**Field Duplicates:** Acceptable. The field duplicate results were consistent.

**8. Internal Standards (IS):** Acceptable. IS performance was acceptable for all analyses.

**ORGANIC QA REVIEW  
CONTINUATION PAGE**

**CASE 35905 SDG F27J4 SITE Jones Road Ground Water Plume LAB DATA**

- 9. Compound Identity (ID)/Quantitation:** Acceptable. The only target compound detected at a concentration above the CRQL was tetrachloroethene in samples F27Z7 and F2841. No compound ID or quantitation problem was detected.
- 10. Performance/Completeness:** Acceptable. The data package was complete. The laboratory was contacted about two minor issues (see Resubmission Request). The DST included in this report is the final version.
- 11. Overall Assessment:** Some results were qualified for one sample because of problems with DMC recovery.

## **HEADER DEFINITIONS FOR ORGANIC EXCEL DST**

CASE: Case Number  
SDG: SDG Number  
EPASAMP: EPA Sample Number  
LABID: Laboratory File/Sample ID  
MATRIX: Sample Matrix  
ANDATE: Sample Analysis Date  
ANTIME: Sample Analysis Time  
CASNUM: Compound CAS Number  
ANALYTE: Compound Name  
CONC: Compound Concentration  
VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)  
UNITS: Concentration Units  
ADJCRQL: Adjusted Contract Required Quantitation Limit Value  
SMPDATE: Sampling Date  
STATLOC: Station Location

**Disclaimer:** ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

## **ORGANIC DATA QUALIFIER DEFINITIONS**

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- N** Identification is tentative.
- J** Estimated value.
- L** Reported concentration is below the CRQL.
- M** Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.
- R** Unusable.
- ^** High biased. Actual concentration may be lower than the concentration reported.
- V** Low biased. Actual concentration may be higher than the concentration reported.
- F+** A false positive exists.
- F-** A false negative exists.
- UJ** Estimated quantitation limit.
- T** Identification is questionable because of absence of other commonly coexisting pesticides.
- C** Identification of pesticide or aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).
- X** Identification of pesticide or aroclor could not be confirmed by GC/MS when attempted.
- \*** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	74-83-9	Bromomethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-00-3	Chloroethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-69-4	Trichlorodifluoromethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-35-4	1,1-Dichloroethene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	67-64-1	Acetone	5.0	U	ug/L	5.0	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	79-20-9	Methyl acetate	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-09-2	Methylene chloride	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	1634-04-4	Methyl tert-butyl ether	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	78-93-3	2-Butanone	5.0	U	ug/L	5.0	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	74-97-5	Bromoform	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	67-66-3	Chloroform	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	56-23-5	Carbon tetrachloride	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	71-43-2	Benzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	123-91-1	1,4-Dioxane	20	U	ug/L	20	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	79-01-6	Trichloroethene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	108-10-1	4-Methyl-2-Pentanone	5.0	U	ug/L	5.0	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	108-88-3	Toluene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	591-78-6	2-Hexanone	5.0	U	ug/L	5.0	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	106-93-4	1,2-Dibromoethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	100-41-4	Ethylbenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	179601-23-1	m,p-Xylene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	100-42-5	Styrene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	75-25-2	Bromoform	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703

35905	F27J4	F27J4	6319003001	W	11/19/2006	19:16:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DK11703
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-71-8	Dichlorodifluoromethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	74-87-3	Chloromethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	74-83-9	Bromomethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-00-3	Chloroethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-69-4	Trichlorofluoromethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-35-4	1,1-Dichloroethene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	67-64-1	Acetone	5.0	U	ug/L	5.0	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-15-0	Carbon disulfide	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	79-20-9	Methyl acetate	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-09-2	Methylene chloride	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	156-60-5	trans-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	1634-04-4	Methyl tert-butyl ether	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-34-3	1,1-Dichloroethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	156-59-2	cis-1,2-Dichloroethene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	78-93-3	2-Butanone	5.0	U	ug/L	5.0	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	74-97-5	Bromochloromethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	67-66-3	Chloroform	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	71-55-6	1,1,1-Trichloroethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	110-82-7	Cyclohexane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	56-23-5	Carbon tetrachloride	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	71-43-2	Benzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	107-06-2	1,2-Dichloroethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	123-91-1	1,4-Dioxane	20	U	ug/L	20	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	79-01-6	Trichloroethene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	108-87-2	Methylcyclohexane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	78-87-5	1,2-Dichloropropane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-27-4	Bromodichloromethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	108-10-1	4-Methyl-2-Pentanone	5.0	U	ug/L	5.0	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	108-88-3	Toluene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	79-00-5	1,1,2-Trichloroethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	591-78-6	2-Hexanone	5.0	U	ug/L	5.0	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	124-48-1	Dibromochloromethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	106-93-4	1,2-Dibromoethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	108-90-7	Chlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	100-41-4	Ethylbenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	95-47-6	o-Xylene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	179601-23-1	m,p-Xylene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	100-42-5	Styrene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	75-25-2	Bromoform	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	98-82-8	Isopropylbenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	79-34-5	1,1,2-Tetrachloroethane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	541-73-1	1,3-Dichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	106-46-7	1,4-Dichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	95-50-1	1,2-Dichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507
35905	F27J4	F27J5	6319003002	W	11/19/2006	19:51:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U	ug/L	0.50	11/14/2006	DM11507







































# INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 35905 SDG No. F27J4 SDG Nos. To Follow SAS No. Date Rec'd 11/29/06

<b>EPA Lab ID:</b> DATA <b>Lab Location:</b> Salt Lake City, UT <b>Region:</b> 6 <b>Audit No.:</b> 35905/F27J4 <b>Re_Submitted CSF?</b> Yes      No      X <b>Box No(s):</b> 1	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">ORIGINALS</th> <th style="text-align: center;">YES</th> <th style="text-align: center;">NO</th> <th style="text-align: center;">N/A</th> </tr> </thead> <tbody> <tr> <td colspan="2"><b>CUSTODY SEALS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">1. Present on package?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">2. Intact upon receipt?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>FORM DC-2</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">3. Numbering scheme accurate?</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td colspan="2">4. Are enclosed documents listed?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">5. Are listed documents enclosed?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>FORM DC-1</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">6. Present?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">7. Complete?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">8. Accurate?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>CHAIN-OF-CUSTODY RECORD(s)</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">9. Signed?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">10. Dated?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>TRAFFIC REPORT(s) PACKING LIST(s)</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">11. Signed?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">12. Dated?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>AIRBILLS/AIRBILL STICKER</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">13. Present?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">14. Signed?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">15. Dated?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>SAMPLE TAGS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">16. Does DC-1 list tags as being included?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">17. Present?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>OTHER DOCUMENTS</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">18. Complete?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">19. Legible?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td colspan="2">20. Original?</td> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td colspan="2">20a. If "NO", does the copy indicate where original documents are located?</td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> </tbody> </table>	ORIGINALS		YES	NO	N/A	<b>CUSTODY SEALS</b>					1. Present on package?		X			2. Intact upon receipt?		X			<b>FORM DC-2</b>					3. Numbering scheme accurate?			X		4. Are enclosed documents listed?		X			5. Are listed documents enclosed?		X			<b>FORM DC-1</b>					6. Present?		X			7. Complete?		X			8. Accurate?		X			<b>CHAIN-OF-CUSTODY RECORD(s)</b>					9. Signed?		X			10. Dated?		X			<b>TRAFFIC REPORT(s) PACKING LIST(s)</b>					11. Signed?		X			12. Dated?		X			<b>AIRBILLS/AIRBILL STICKER</b>					13. Present?		X			14. Signed?		X			15. Dated?		X			<b>SAMPLE TAGS</b>					16. Does DC-1 list tags as being included?		X			17. Present?		X			<b>OTHER DOCUMENTS</b>					18. Complete?		X			19. Legible?		X			20. Original?			X		20a. If "NO", does the copy indicate where original documents are located?		X		
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Audited by: \_\_\_\_\_  
 Audited by: \_\_\_\_\_  
 Audited by: \_\_\_\_\_

Signature

Linda Hoffman / ESAT Data Reviewer

Date 12/06/06

Date \_\_\_\_\_

Date \_\_\_\_\_

DC-2

Printed Name/Title

In Reference To Case No(s):  
35905 SDG: F27J4 (0-0098)

**Contract Laboratory Program  
REGIONAL/LABORATORY COMMUNICATION SYSTEM**

**Resubmission Request**

<b>Laboratory Name:</b>	DATAc
<b>Lab Contact:</b>	Roxanne Olson
<b>Region:</b>	6
<b>Regional Contact:</b>	Mahmoud El-Feky - EPA
<b>ESAT Reviewer:</b>	Linda Hoffman - ESAT

**In reference to data for the following fractions:**

TVOA

**Summary of Questions/Issues:**

1. SMO was not contacted when more than one sample was listed for QC analysis (SOM01.1, D-42/TRACE VOA, 12.2.2.5). In the future, please follow the contract. No resubmission is required at this time.
2. The use of a secondary ion for the quantitation of methylcyclohexane was not documented in the SDG Narrative (SOM01.1, D-30/TRACE VOA, Note 2). In the future, please follow the contract. No resubmission is required at this time.

**NOTE:** Any laboratory resubmission should be submitted either as an addendum to the original CSF with a revised Form DC-2 or submitted as a new CSF with a new Form DC-2 except for replacement pages (SOM01.1, B-33, 2.6.3). Custody seals are required for all such shipments.

Please respond to the above items **within 7 days** by e-mail to El-Feky.Mahmoud@epamail.epa.gov and by regular mail to:

Mr. Mahmoud El-Feky  
U.S. EPA Region 6 Laboratory  
10625 Fallstone Road  
Houston, TX 77099

If you have any questions, please contact Mr. El-Feky at 281-983-2128.

**Distribution: (1) Lab Copy, (2) Region Copy, and (3) ESAT Copy**





**USEPA Contract Laboratory Program**  
**Organic Traffic Report & Chain of Custody Record**

Case No: 35905

DAS No:

R

Region: 6	Project Code: 123739	Date Shipped: 11/14/2006	Chain of Custody Record		Sampler Signature: <i>Walter</i>
Account Code:	CERCLIS ID:	Carrier Name: UPS	Relinquished By	(Date / Time)	Received By
Spill ID:		Airbill: 1Z66V0692210005969			
Site Name/State: JONES RD GW PLUME FEDERAL SUPERFUND	Project Leader: BILL HARDMANT	Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700			
Action: Sampling Co: Shaw Environmental, Inc.			1	11/14/2006 1700	
			2		
			3		
			4		

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F27R0	Ground Water	/G	Trace VOA (14)	363257 (HCL), 363258 (HCL), 363259 (HCL) (3)	JR11718	S: 11/14/2006 12:23		-
F27R1	Ground Water	/G	Trace VOA (14)	363260 (HCL), 363261 (HCL), 363262 (HCL) (3)	JR11729 1/2	S: 11/14/2006 13:15		-
F27R2	Ground Water	/G	Trace VOA (14)	420666 (HCL), 420667 (HCL), 420668 (HCL) (3)	JRW11234	S: 11/14/2006 13:51		-
F27Z7	Ground Water	/G	Trace VOA (14)	363096 (HCL), 363097 (HCL), 363098 (HCL) (3)	TH11611	S: 11/14/2006 10:40		-
F2800	Ground Water	/G	Trace VOA (14)	325653 (HCL), 325654 (HCL), 325655 (HCL) (3)	TH11620	S: 11/14/2006 11:25		-
F2801	Ground Water	/G	Trace VOA (14)	363093 (HCL), 363094 (HCL), 363095 (HCL) (3)	TH11635	S: 11/14/2006 10:00		-
F2802	Ground Water	/G	Trace VOA (14)	325656 (HCL), 325657 (HCL), 325658 (HCL), 325659 (HCL), 325660 (HCL), 325661 (HCL), 325662 (HCL), 325663 (HCL), 325664 (HCL) (9)	TH11642	S: 11/14/2006 13:15		-
F2803	Ground Water	/G	Trace VOA (14)	363090 (HCL), 363091 (HCL), 363092 (HCL) (3)	TH11643	S: 11/14/2006 9:20		-
F2806	Ground Water	/G	Trace VOA (14)	325665 (HCL), 325666 (HCL), 325667 (HCL) (3)	TH11722	S: 11/14/2006 14:05		-

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:  F27L2, F2802	Additional Sampler Signature(s):  <i>Walter</i> <i>JPB</i> <i>Bauer</i>	Chain of Custody Seal Number:
Analysis Key: Trace VOA = Trace VOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 6-043013577-111406-0011

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4609



**USEPA Contract Laboratory Program**  
**Organic Traffic Report & Chain of Custody Record**

Case No: 35905  
DAS No:

R

Region: 6	Date Shipped: 11/14/2006	Chain of Custody Record	
Project Code: 123739	Carrier Name: UPS	Sampler Signature:	
Account Code:	Airbill: 1Z66V0692210005969	Relinquished By (Date / Time)	Received By (Date / Time)
CERCLIS ID:	Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	1/14/2006 11/14/06 1700	
Spill ID:		2	
Site Name/State: JONES RD GW PLUME FEDERAL SUPERFUND		3	
Project Leader: BILL HARDMANT		4	
Action: Sampling Co: Shaw Environmental, Inc.			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F2809	Ground Water	/G	Trace VOA (14)	325668 (HCL), 325669 (HCL), 325670 (HCL) (3)	TH11737	S: 11/14/2006 14:45		--
F2841	Ground Water	/G	Trace VOA (14)	420879 (HCL), 420880 (HCL), 420881 (HCL) (3)	TT11102	S: 11/14/2006 10:15		--
F2847	Ground Water	/G	Trace VOA (14)	420882 (HCL), 420883 (HCL), 420884 (HCL) (3)	TT11112	S: 11/14/2006 11:00		--
F2848	Ground Water	/G	Trace VOA (14)	420885 (HCL), 420886 (HCL), 420887 (HCL) (3)	TT11114	S: 11/14/2006 11:40		--
F2851	Ground Water	/G	Trace VOA (14)	420888 (HCL), 420889 (HCL), 420890 (HCL) (3)	TT11124	S: 11/14/2006 13:15		--
F2857	Ground Water	/G	Trace VOA (14)	420894 (HCL), 420895 (HCL), 420896 (HCL) (3)	TT11202	S: 11/14/2006 14:00		--
F2860	Ground Water	/G	Trace VOA (14)	420897 (HCL), 420898 (HCL), 420899 (HCL) (3)	TT11222	S: 11/14/2006 14:45		--
F2861	Ground Water	/G	Trace VOA (14)	420669 (HCL), 420670 (HCL), 420671 (HCL) (3)	TT11230	S: 11/14/2006 14:56		--
F2884	Ground Water	/G	Trace VOA (14)	420616 (HCL), 420617 (HCL), 420618 (HCL) (3)	TRIP BLANK 11	S: 11/14/2006 5:50		Trip Blank
F2896	Ground Water	/G	Trace VOA (14)	420622 (HCL), 420623 (HCL), 420624 (HCL) (3)	FIELD BLANK 11	S: 11/14/2006 7:50		Field Blank
F28C2	Ground Water	/G	Trace VOA (14)	363245 (HCL), 363246 (HCL), 363247 (HCL) (3)	JR11650A	S: 11/14/2006 8:07		Field Duplicate

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F27L2, F2802	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key: Trace VOA = Trace VOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

**TR Number: 6-043013577-111406-0011**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4200

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